



CITY of NOVI CITY COUNCIL

Agenda Item H
January 22, 2008

SUBJECT: Consideration of cost share agreements with the Road Commission for Oakland County for the modification of traffic signals at the intersections of Beck and Eight Mile Roads and Beck Road and Grand River Avenue.

SUBMITTING DEPARTMENT: Engineering *RS*

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$ 25,750 (\$12,000 for Beck & Grand River Signal and \$13,750 for the Beck & Eight Mile Signal)
AMOUNT BUDGETED	\$ 0
APPROPRIATION REQUIRED	\$ 25,750 (\$12,000 for Beck & Grand River Signal and \$13,750 for the Beck & Eight Mile Signal)
LINE ITEM NUMBER	To be charged to the Municipal Street Fund; line item assignment will be made upon approval

BACKGROUND INFORMATION:

The Road Commission for Oakland County (RCOC) has included the modernization of the traffic signal at the intersection of Beck Road and Eight Mile and the reconfiguration of the mast arms for the traffic signal at Beck Road and Grand River Avenue in its 2008 program. The enclosed Agreement for Traffic Control Device must be executed by the participating communities before construction can begin.

The traffic signal at the intersection of Beck Road and Eight Mile Road will be modernized to include a dedicated left turn signal for all four legs of the intersection, which does not currently exist. While this intersection was the 6th worst intersection in Novi for traffic crashes in 2007, what is more notable is that 11 of 25 crashes in 2007 (44%) were classified as head-on left turns (see crash summary attached). Head-on left turn crashes would likely be reduced with a dedicated left turn signal. Novi has jurisdiction over the western half of Beck Road north of Eight Mile Road (shared jurisdiction with Northville) resulting in 12.5% of the cost allocation attributable to Novi. The other participants are Wayne County, Oakland County and City of Northville. Novi's share of this \$110,000 project is \$13,750.

The traffic signal at the intersection of Grand River Avenue and Beck Road was installed by Michigan Department of Transportation (MDOT) as part of the Beck Road/I-96 interchange project in 2005. At the time of construction, the mast arms were installed on the near side of the intersection as required by the standards that were in place at the time for wide, skewed intersections. The greater than normal distance between the motorist and the signal (if the arms had been installed on the far side of the intersection) was the primary reason for the signals to be installed on the near side. The location of the mast arms has been a topic of discussion between the City and RCOC because their configuration has prompted many complaints from motorists. The installation standards have since changed to allow the mast arms to be installed on the far side, which is customary and consistent with the City's other mast arm intersections. RCOC has jurisdiction over Grand River Avenue and Beck Road (north of Grand River), while the City has jurisdiction over Beck Road south of Grand River, resulting in the allocation of 25% of the cost to

the city. (This intersection is shown in the enclosed traffic crash report as the intersection with the third highest number of crashes in Novi; however, in reviewing the data it is unclear if the crashes are attributable to the signal configuration or to the volume of traffic passing through the intersection). Novi's share of the \$48,000 project cost is \$12,000.

The draft agreements have been reviewed and approved by the Engineering Department and the City Attorney's office (see letter from City Attorney, attached). Construction would be completed as part of a larger signalization project by the Road Commission for Oakland County sometime during the summer of 2008.

RECOMMENDED ACTION: Approval of cost share agreements with the Road Commission for Oakland County for the modification of traffic signals at the intersections of Beck and Eight Mile Roads and Beck Road and Grand River Avenue.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Capello				
Council Member Crawford				
Council Member Gatt				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

SECRET
SW
WARDLE

January 16, 2008

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Elizabeth M. Kudla
Direct: 248-539-2846
bkudla@secretwardle.com

Rob Hayes, City Engineer
City of Novi
45175 W. Ten Mile Road
Novi, MI 48375

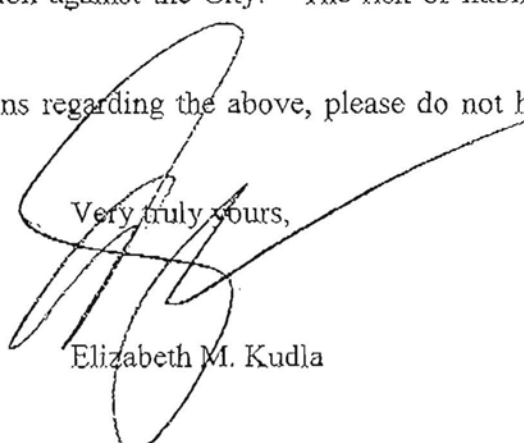
RE: *Agreement with Road Commission for Oakland County*
Beck Road and Grand River Traffic Signal
Our File No. 55142 NOV

Dear Mr. Hayes:

As you may recall, we requested that the Road Commission modify the hold harmless provision in the proposed Cost Sharing Agreement. The Road Commission's legal counsel has responded indicating that she will not change the form Agreement but that the hold harmless clause in the Cost Sharing Agreement does not apply in this instance because the right-of-way in question is under the County's jurisdiction. Based on this statement, though an argument can be made that the City could have some liability pursuant to MCL 691.1402a(1) if the County is acting as the City's agent in maintaining the signal, it is unlikely that a court would enforce the provision against the City. The risk of liability to the City appears to be minimal.

If you have any questions regarding the above, please do not hesitate to contact me.

Very truly yours,



Elizabeth M. Kudla

TRS/jes

cc: Maryanne Cornelius, City Clerk
Brian Coburn, Civil Engineer
Thomas R. Schultz, Esq.

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STATE OF MICHIGAN
 BOARD OF COUNTY ROAD COMMISSIONERS
 OAKLAND COUNTY
 AGREEMENT FOR TRAFFIC CONTROL DEVICE

Type of Work: TRAFFIC SIGNAL MODERNIZATION

Location: Beck Road and Grand River Avenue

Signal No: C0 213

Date Effective: _____

Under authority of state law and by virtue of resolution formally adopted by their respective governing bodies, the under-signed hereby agree to participate in the cost of installation, maintenance and operation of the above traffic control device on the basis of the following division of costs. (Title to equipment shall remain with the purchasing agency, unless purchased for roads not under the jurisdiction of the Board of County Road Commissioner.) The proportionate share of all costs are to be billed monthly. This agreement is terminable on thirty days written notice by any party.

DIVISION OF COSTS

AGENCY	INSTALLATION		MAINTENANCE
	Percent	Estimated Cost	Percent
ROAD COMMISSION FOR OAKLAND COUNTY	75 %	\$ 36,000.00	75 %
CITY OF NOVI	25 %	<u>\$ 12,000.00</u>	<u>25 %</u>
Total	100%	\$ 48,000.00	100 %

It is further agreed that the agency responsible for payment of energy billings and/or leased line interconnection billings included in maintenance costs, shall be the Road Commission for Oakland County.

It is further agreed that the agency responsible for making original and replacement installations and performing maintenance shall be the ROAD COMMISSION FOR OAKLAND COUNTY.

"In the event the traffic control device referred to in this agreement is located on a road or street that is not under the jurisdiction of the Road Commission for Oakland County, the authority having the jurisdiction over the road or street hereby agrees to save harmless, indemnify, represent, and defend the Road Commission for Oakland County from any and all claims, demands, or suits arising out of or relating to the installation, maintenance and operation of the traffic control device which is the subject matter of this agreement."

"In the event the traffic control device referred to in this agreement is located on a road or street that is under the jurisdiction of the Road Commission for Oakland County and by virtue of this agreement will be maintained by an agency other than the Road Commission for Oakland County, then and in that event the said agency hereby acknowledges that it is undertaking the Road Commission for Oakland County's duty to maintain the said traffic control device and further agrees to provide insurance coverage protecting the Road Commission for Oakland County."

APPROVED:

ROAD COMMISSION FOR OAKLAND COUNTY

Date _____

By _____
 Gary Piotrowicz

DIRECTOR OF TRAFFIC-SAFETY
 Title of Authorized Official

APPROVED:

CITY OF NOVI

Date _____

By _____

 Title of Authorized Official

*Certified copy of resolution must be submitted with this form for new installations.

STATE OF MICHIGAN
 BOARD OF COUNTY ROAD COMMISSIONERS
 OAKLAND COUNTY
 AGREEMENT FOR TRAFFIC CONTROL DEVICE

Type of Work: TRAFFIC SIGNAL MODERNIZATION

Location: BECK ROAD AND EIGHT MILE ROAD

Signal No: CO 854

Date Effective: _____

Under authority of state law and by virtue of resolution formally adopted by their respective governing bodies, the under-signed hereby agree to participate in the cost of installation, maintenance and operation of the above traffic control device on the basis of the following division of costs. (Title to equipment shall remain with the purchasing agency, unless purchased for roads not under the jurisdiction of the Board of County Road Commissioner.) The proportionate share of all costs are to be billed monthly. This agreement is terminable on thirty days written notice by any party.

DIVISION OF COSTS

AGENCY	INSTALLATION		MAINTENANCE
	Percent	Estimated Cost	Percent
RCOC	50 %	\$ 55,000.00	50 %
Wayne County	25 %	\$ 27,500.00	25 %
City of Novi	12 ½ %	\$ 13,750.00	12 ½ %
City of Northville	12 ½ %	\$ 13,750.00	12 ½ %
Total	100 %	\$110,000.00	100 %

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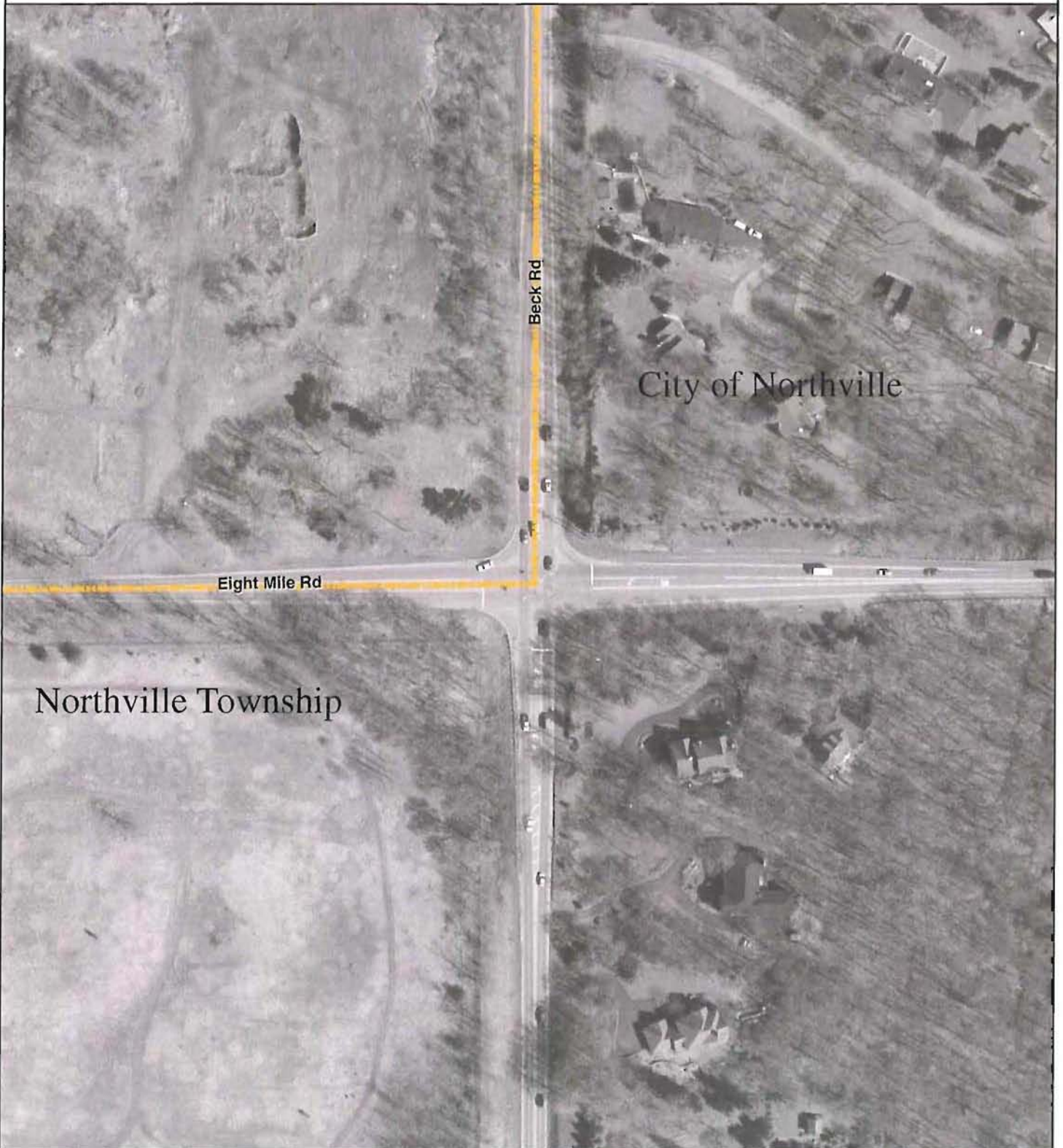
"In the event the traffic control device referred to in this agreement is located on a road or street that is under the jurisdiction of the Road Commission for Oakland County and by virtue of this agreement will be maintained by an agency other than the Road Commission for Oakland County, then and in that event the said agency hereby acknowledges that it is undertaking the Road Commission for Oakland County's duty to maintain the said traffic control device and further agrees to provide insurance coverage protecting the Road Commission for Oakland County."

Approved:	Approved:	Approved:	Approved:
Road Commission For Oakland County	Wayne County	City of Novi	City of Northville
Date: _____	Date: _____	Date: _____	Date: _____
By: _____	By: _____	By: _____	By: _____
Gary Piotrowicz Director of Traffic-Safety Title of Authorized Official	Title of Authorized Official	Title of Authorized Official	Title of Authorized Official

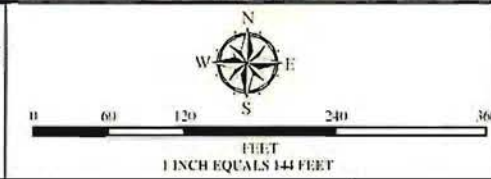
*Certified copy of resolution must be submitted with this form for new installations.

Location Map

Eight Mile Road and Beck Road



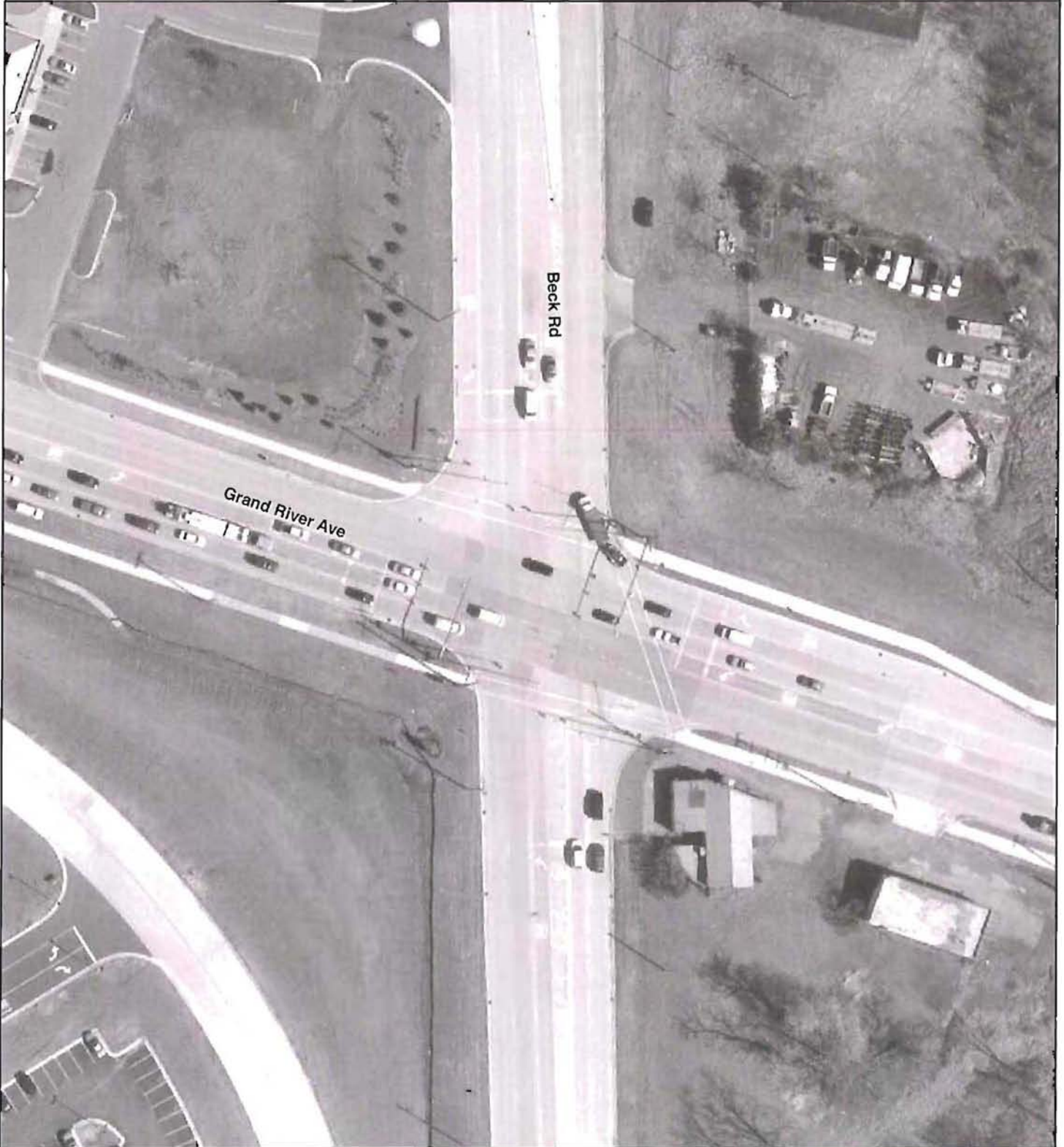
CITY OF NOVI
 GEOGRAPHIC INFORMATION SYSTEMS OFFICE
 DEPARTMENT OF INFORMATION TECHNOLOGY
 NOVI CITY HALL/ATV/C CENTER
 45175 W. TEN MILE ROAD
 NOVI, MI 48375-3024
 (248) 347-3279
 WWW.CI.NOVI.MI.US



MAP INTERPRETATION NOTICE
 Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

Location Map

Grand River Avenue and Beck Road



CITY OF NOVI
 GEOGRAPHIC INFORMATION SYSTEMS OFFICE
 DEPARTMENT OF INFORMATION TECHNOLOGY
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Traffic Crash Reporting System - High Crash Intersection Report

You searched for County = Oakland City/Township = Novi Date Range = 01/01/2007 To 12/31/2007 Time Range = 00:00 To 23:59 Distance = 200 feet Area = All Crashes Number of Locations = 20

Rank	City/Township	Location	Crashes	
1	Novi	GRAND RIVER AVE @ NOVI RD	62	View Detail
2	Northville Twp	HAGGERTY RD @ HAGGERTY RD EIGHT MILE	37	View Detail
* 3	Novi	BECK RD @ GRAND RIVER AVE	31	View Detail
4	Commerce Twp	BECK RD @ BECK RD PONTIAC TRL	31	View Detail
5	Farmington Hills	GRAND RIVER @ HAGGERTY RD	25	View Detail
* 6	Northville	BECK RD @ BECK RD EIGHT MILE	25	View Detail
7	Novi	NOVI RD @ W 10 MILE RD	24	View Detail
8	Farmington Hills	HAGGERTY RD @ W 12 MILE RD	23	View Detail
9	Commerce Twp	N M 5 @ W 14 MILE RD	23	View Detail
10	Novi	NOVI RD @ WEST OAKS DR	21	View Detail
11	Novi	BECK RD @ W 10 MILE RD	21	View Detail
12	Novi	CRESCENT BLVD @ FONDA ST / NOVI RD	20	View Detail
13	Commerce Twp	HAGGERTY HWY @ W 14 MILE RD	20	View Detail
14	Novi	N NOVI/W I 96 RAMP @ W I 96	20	View Detail
15	Farmington Hills	HAGGERTY RD @ W 10 MILE RD	19	View Detail
16	Novi	9 MILE RD @ NOVI RD	17	View Detail
17	Farmington Hills	HAGGERTY RD @ W 13 MILE RD	16	View Detail
18	Novi	S M 5 @ W 13 MILE RD	16	View Detail
19	Novi	NOVI RD @ W 12 MILE RD	16	View Detail
20	Novi	E I 96 @ NOVI RD	16	View Detail

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2007 TRAFFIC CRASH SUMMARY
BECK ROAD AND EIGHT MILE ROAD INTERSECTION

Time	Date	Type	Area	Alcohol Related	Commercial Vehicles	Pedestrian	Bicycle	Location	Distance	Direction
6:46	09/25/2007	Head On-Left Turn	Intersection	No	No	No	No	BECK RD @ W 8 MILE RD	5	Southeast
7:01	12/05/2007	Head On-Left Turn	Intersection	No	No	No	No	W 8 MILE RD @ BECK RD	3	Northwest
7:22	06/15/2007	Head On-Left Turn	Other	No	No	No	No	W 8 MILE RD @ BECK RD	10	South
7:25	03/15/2007	Rear End	Other	No	Yes	No	No	BECK RD @ W 8 MILE RD	100	South
8:14	07/30/2007	Angle	Intersection	No	No	No	No	BECK RD @ W 8 MILE RD	10	Southwest
8:20	02/05/2007	Rear End	Intersection	No	No	No	No	BECK RD @ W 8 MILE RD	150	South
8:40	03/15/2007	Sideswipe-Same	Other	No	No	No	No	BECK RD @ BECK RD	100	North
8:50	09/26/2007	Head On-Left Turn	Intersection	No	No	No	No	BECK RD @ W 8 MILE RD	5	South
9:50	07/25/2007	Head On-Left Turn	Intersection	No	No	No	No	W 8 MILE RD @ BECK RD	10	East
11:25	03/16/2007	Angle	Intersection	No	No	No	No	W 8 MILE RD @ BECK RD	8	Northeast
11:45	01/07/2007	Rear End	Intersection	No	No	No	No	W 8 MILE RD @ BECK RD	0	Intersection
12:40	08/21/2007	Rear End	Other	No	No	No	No	W 8 MILE RD @ BECK RD	85	East
12:59	07/19/2007	Head On	Intersection	No	No	No	No	BECK RD @ W 8 MILE RD	5	South
13:25	01/28/2007	Head On-Left Turn	Intersection	No	No	No	No	W 8 MILE RD @ BECK RD	20	Northeast
14:00	06/07/2007	Head On-Left Turn	Intersection	No	No	No	No	BECK RD @ W 8 MILE RD	10	South
15:00	06/21/2007	Rear End	Intersection	No	No	No	No	W 8 MILE RD @ BECK RD	15	East
15:20	07/30/2007	Head On-Left Turn	Intersection	No	No	No	No	BECK RD @ BECK RD	5	Northwest
17:00	02/14/2007	Head On-Left Turn	Intersection	No	No	No	No	BECK RD @ W 8 MILE RD	10	North
18:01	06/02/2007	Angle	Intersection	No	No	No	No	BECK RD @ W 8 MILE RD	20	South
18:21	07/17/2007	Head On-Left Turn	Intersection	No	No	No	No	W 8 MILE RD @ BECK RD	5	West
18:21	10/10/2007	Rear End	Intersection	No	No	No	No	BECK RD @ W 8 MILE RD	35	North
18:33	01/30/2007	Angle	Intersection	No	No	No	No	W 8 MILE RD @ BECK RD	15	South
18:42	05/21/2007	Rear End	Intersection	No	No	No	No	BECK RD @ W 8 MILE RD	200	South
20:55	03/31/2007	Head On	Other	No	No	No	No	W 8 MILE RD @ BECK RD	100	West
21:12	10/03/2007	Head On-Left Turn	Intersection	No	No	No	No	W 8 MILE RD @ BECK RD	6	Northeast



Eight Mile Road--looking west toward Beck



Beck Road looking south past Eight Mile Road



Grand River Avenue--Looking East



Grand River Avenue—Looking East at southbound Beck Road signal



Grand River Avenue looking West at westbound Grand River Signal